

**ELECTRONIC DEVICE WITH AN UPDATE AGENT THAT EMPLOYS
PREPROCESSING TECHNIQUES FOR UPDATE**

ABSTRACT OF THE DISCLOSURE

Methods of updating an electronic device having an update agent employing preprocessing techniques is disclosed. The methods described permit an electronic device having a non-volatile memory to update a plurality banks in an efficient manner, by preprocessing the original contents of the non-volatile memory. The preprocessing may comprise shifting one or more banks before performing an update, so as to create a moving, unoccupied bank or "bubble" into which the updated version of a bank may be stored. An embodiment of the present invention provides a reduction in the processing of the original memory contents, and extends the life of the non-volatile memory devices used.